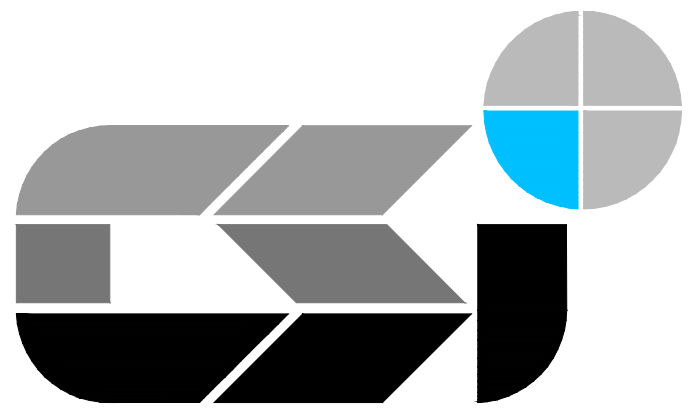


PRODUCT DATA SHEET

CSI - WAP - RRP
Welded Aluminum Plate
Reveal Roof Panel



CSI ARCHITECTURAL METAL, LLC
11548 PYRAMID DR #101,
ODESSA, FL 33556
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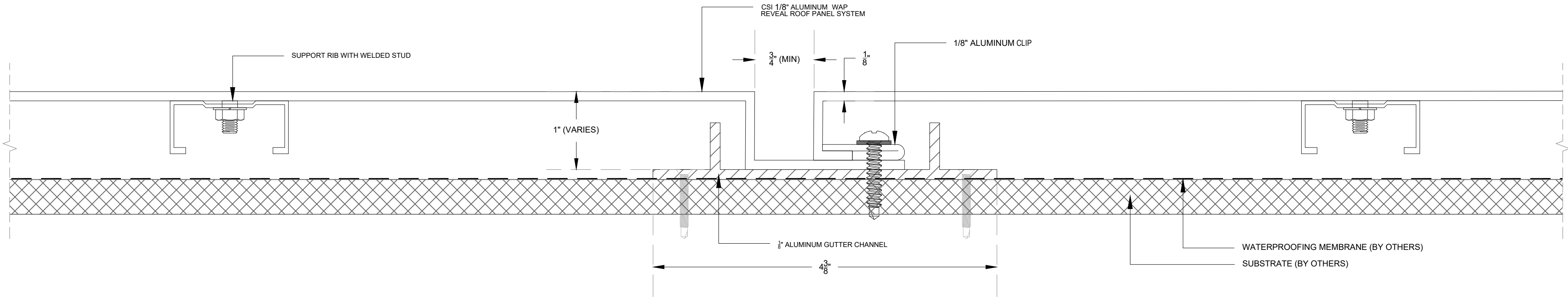
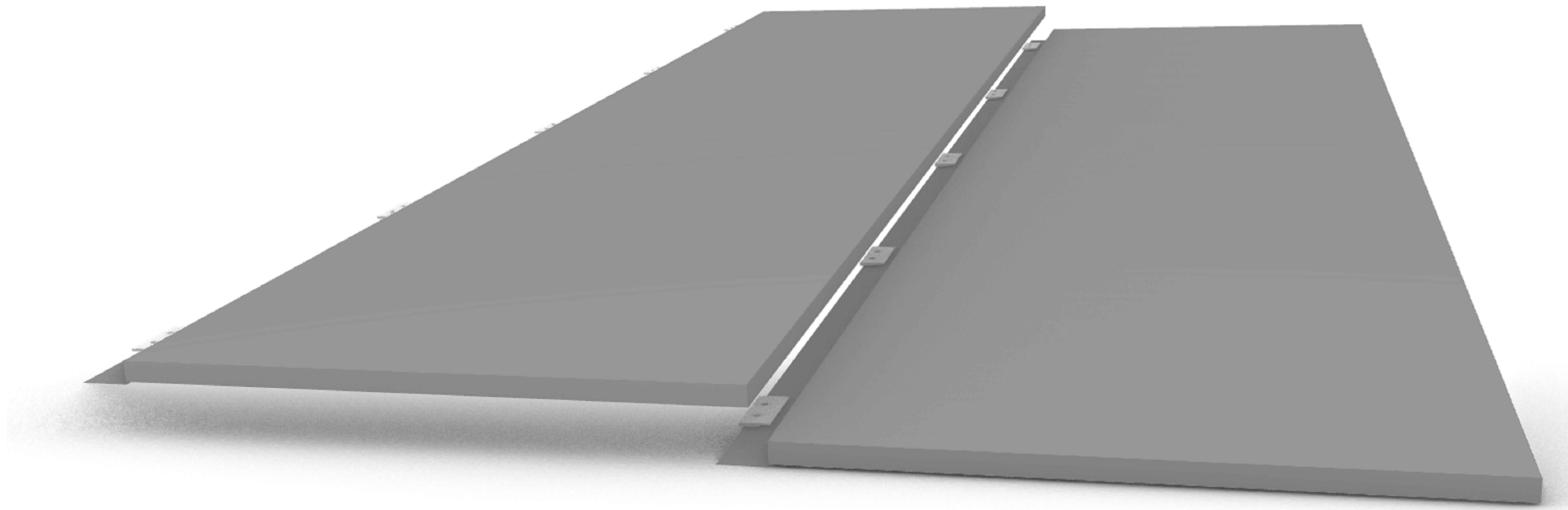


PANEL SPECIFICATION:

Heavy Gauge Premium PVDF Finishes

Post-fabrication baked enamel finishes applied to CSI-WAP components. Each part is welded, ground, and blended until seams are invisible, then finished in a multi-stage enamel process that bonds directly to the metal surface.

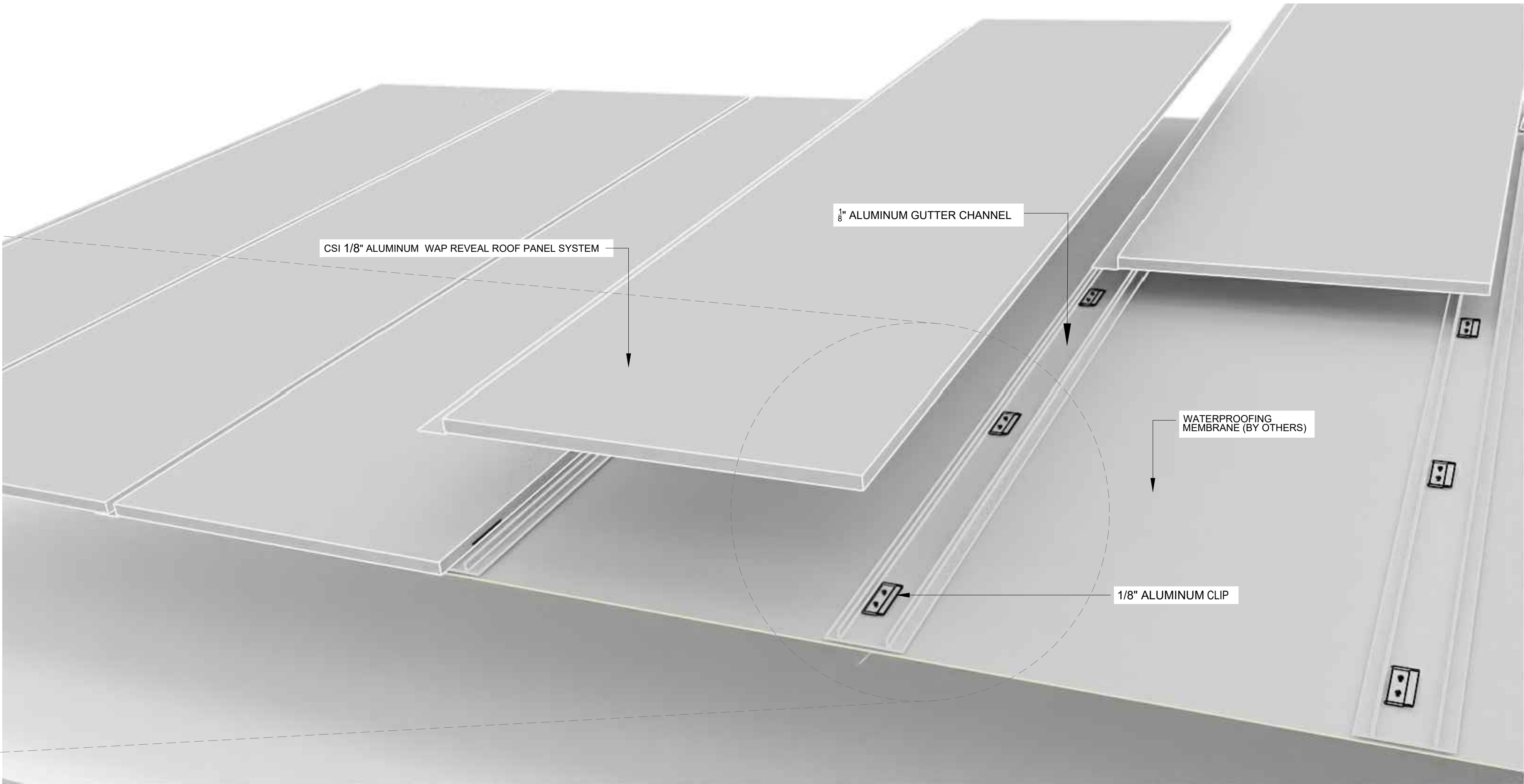
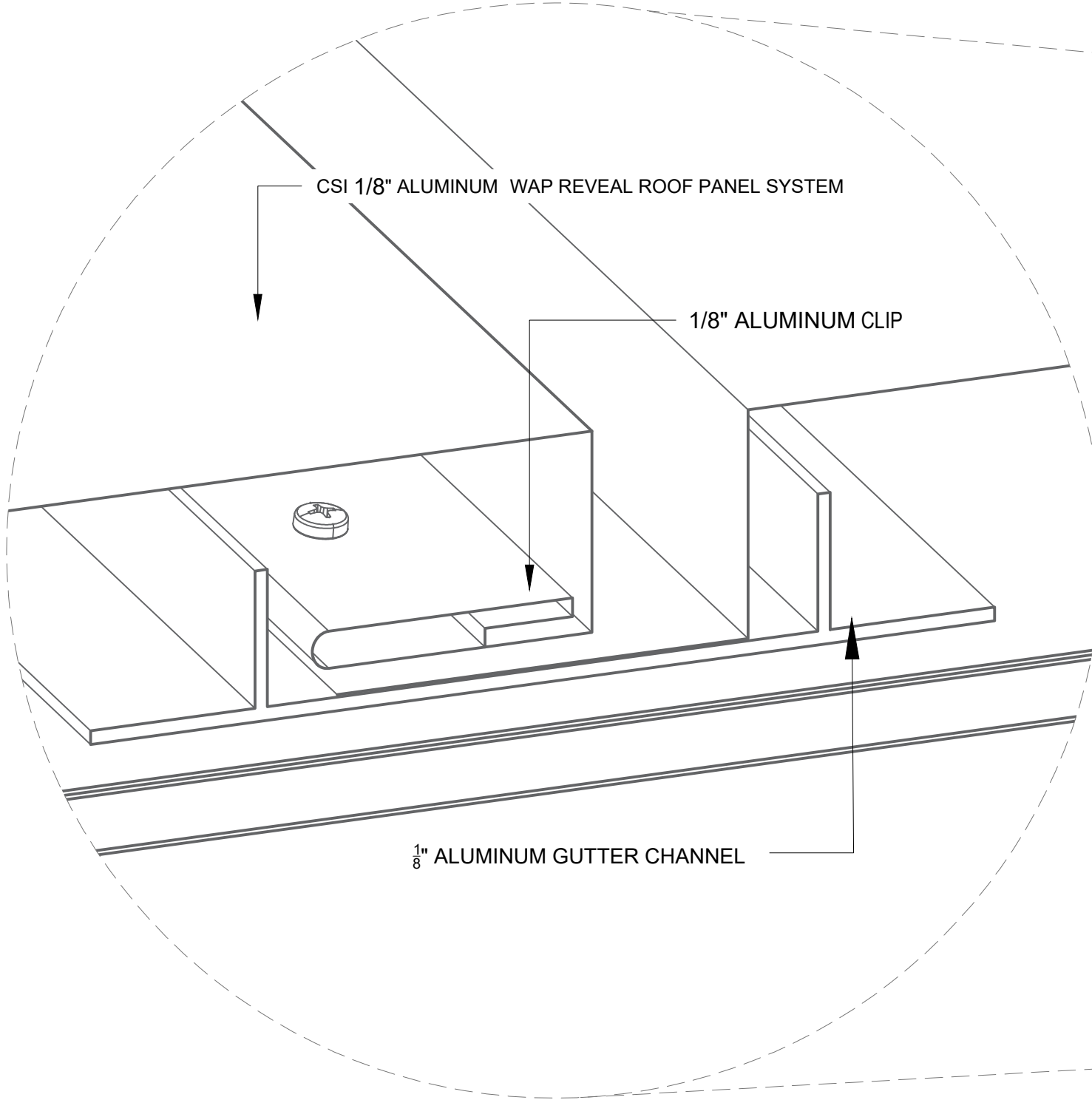
- Engineered Panel System
- Baked Enamel PVDF System — color fuses to the substrate during curing, creating a luminous, durable surface that responds to light and shade.
- Select any tone from the RAL Color Chart, or provide a physical sample for custom color matching.
- Samples available in matte, satin, or polished finish levels.
- Custom metallic and special effect finishes available upon request
- Panel Thickness: 0.08” (2mm, 5/64”), 0.12” (3mm, 1/8”)
- Panel Width: 8” to 54”
- Panel Length: Up to 218” (18’max)
- Panel Reveal: 3/8” min.
- Panels are available in custom sizes and shapes
- Panels are available in convex and concave shapes
- Concealed Fastened Panel System



GUTTER CHANNEL & ATTACHMENT SYSTEM



Backside Panel



PRODUCT DATA SHEET

CSI WAP–Reveal Roof Panel

Welded Aluminum Plate Roof System — Tested. Proven. Unmatched.

Engineered, fabricated, and tested to perform beyond industry standards, the CSI WAP–Reveal Roof Panel redefines the strength and aesthetics of architectural roofing. Manufactured from 1/8” (0.125”) 1100 Series Aluminum Plate, and for marine environments 5052 aluminum, this precision-welded panel system delivers the clean, monolithic look of plate metal with the resilience of structural steel.

Performance:

Tested by Intertek B&C; per TAS 125 (Standard Requirements for Metal Roofing Systems), the CSI WAP–Reveal Roof Panel achieved ultimate uplift pressures up to –262 psf — far exceeding Class 90 performance requirements. Each specimen passed all Class 30, 60, and 90 test phases without system damage, with failures only occurring when the substrate itself detached — proving the panel’s structural superiority.

Specimen	Ultimate Load (psf)
#1	-187
#2	-217
#3	-262

Construction:

- Material: 1/8” (0.125”) Aluminum 1100 Series (Custom alloys available)
- Panel Widths: up to 48” coverage (standard) × 120” lengths (oversized on request)
- Support System: Welded integral stiffeners with clip attachment at 6” O.C.
- Fasteners: Stainless steel #12 HWH head screws in staggered rows at perimeter
- Finish: High-performance baked enamel PVDF finish (from matte to high-metallic) or anodized aluminum; custom RAL and metallic finishes available.

Certification & Compliance

Miami-Dade County NOA No. 24-1009.01

Approval Date: 02/06/2025 Expiration Date: 02/06/2030

The CSI WAP – Welded Aluminum Panel System is approved for use in the High-Velocity Hurricane Zone (HVHZ) under the Florida Building Code.

Tested and accepted by the Miami-Dade County Department of Regulatory and Economic Resources, Product Control Section, this system complies with TAS 125 and is approved for maximum design pressures up to –111 psf on wood deck substrates.

Manufacturing Location: Odessa, Florida

Test Agency: Intertek B&C; (West Palm Beach, FL)

Test Report: Q6264.01-450-18 R1 (TAS 125)

Underlayment: FT Synthetics Platinum HTB (self-adhered, butyl-rubber membrane)

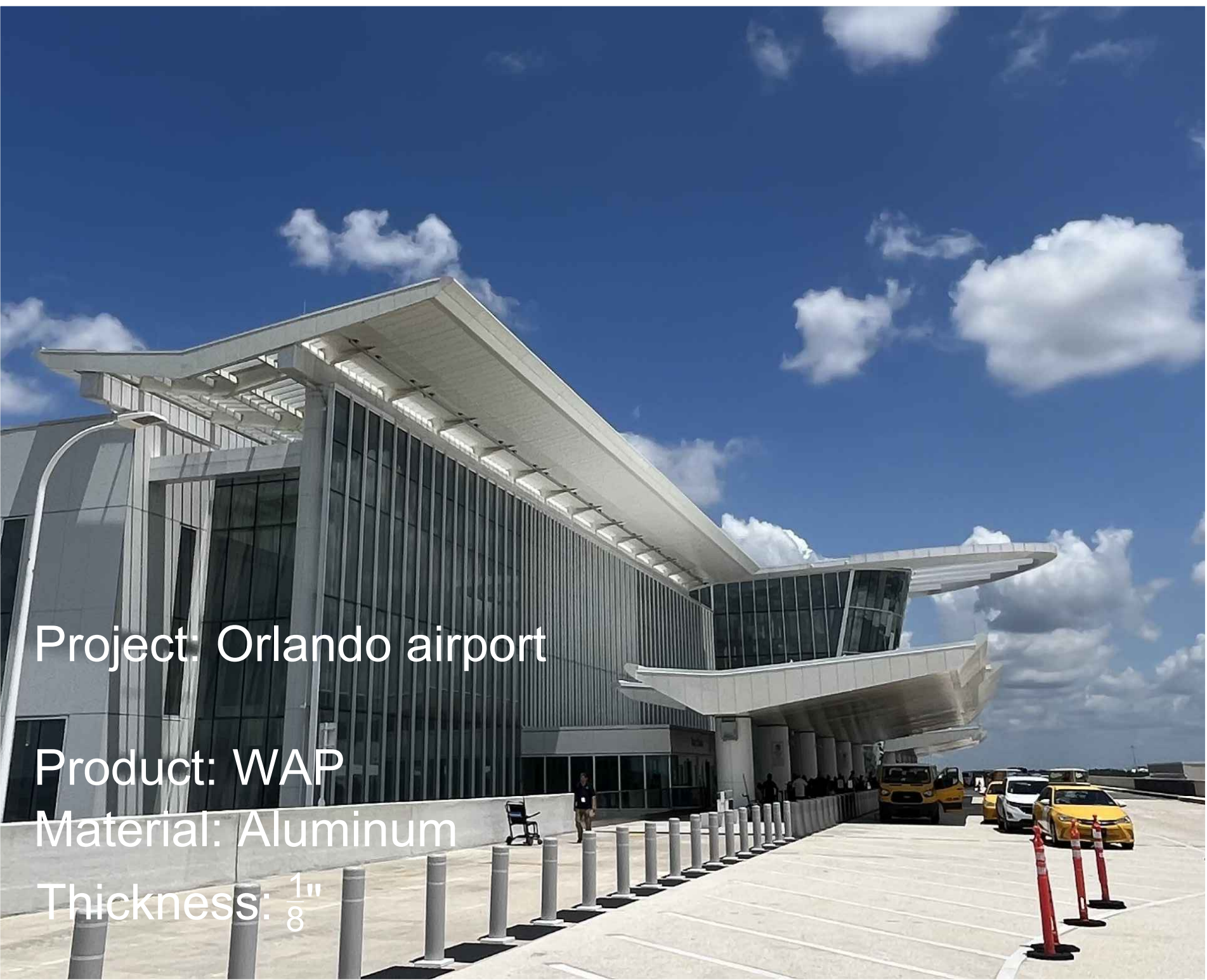
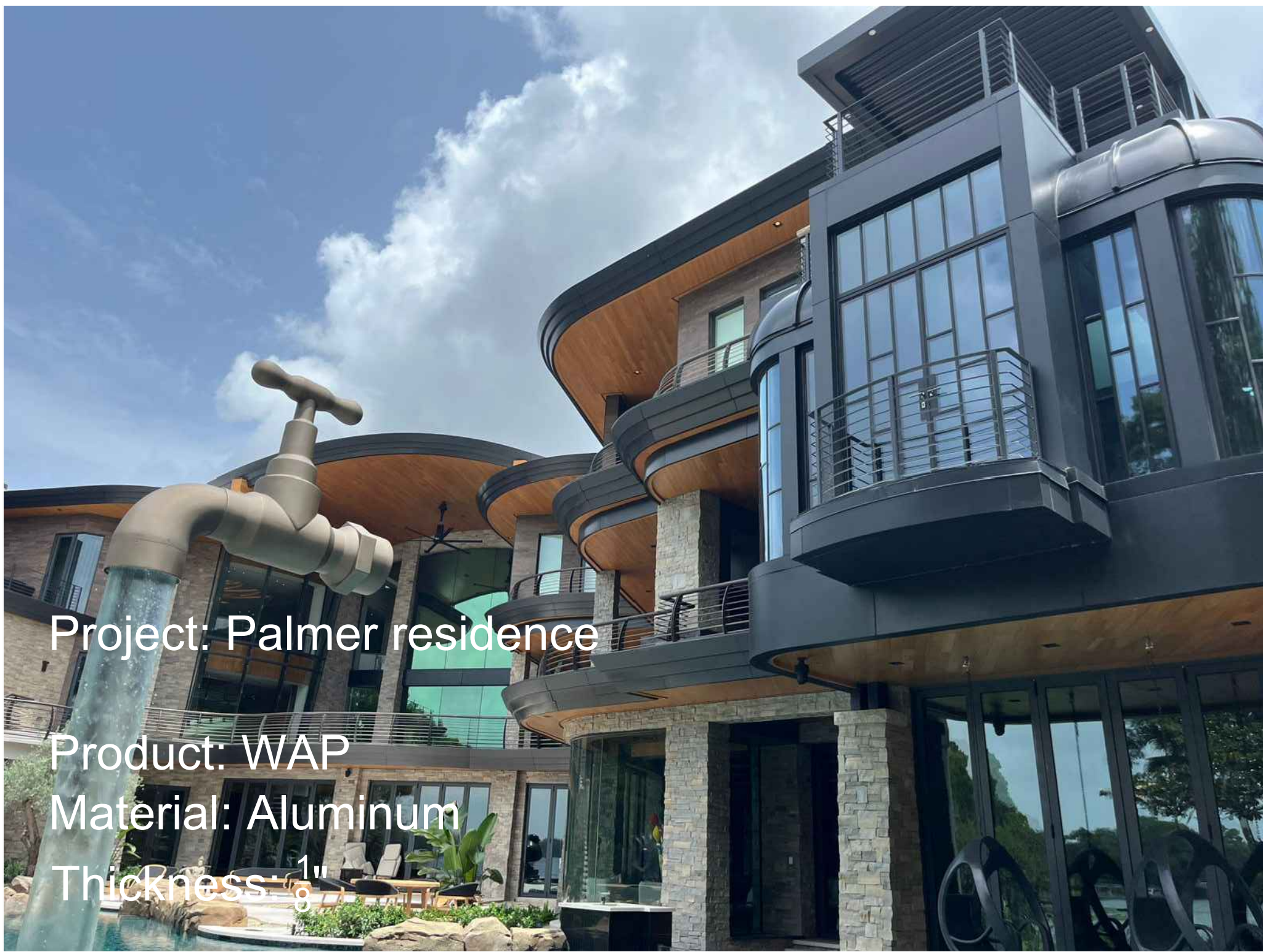
Each panel and clip bears a permanent label with the CSI Architectural Metal logo and the statement:

“Miami-Dade County Product Control Approved.”

Installation and waterproofing guidelines can be found at www.csiarchitecturalmetal.com



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CSI ARCHITECTURAL METAL LLC – WATERPROOFING AND TEST COMPLIANCE SUMMARY

Responsibility & Warranty

CSI Architectural Metal LLC is not responsible for waterproofing unless a formal CSI 20-Year Weather-Tightness Warranty is issued. This warranty is provided only when CSI's tested waterproof assemblies are used in accordance with the specifications validated by Intertek Building & Construction.

Tested and Approved Waterproof Assemblies

CSI recommends the Platinum HT-B Weather Barrier as the standard high-performance membrane for roof, wall, soffit, fascia, and custom assemblies. When field adhesion is reduced due to temperature or moisture, the Perm-A-Barrier water-based primer must be applied prior to installation.

Low-Slope Applications (< 2:12 Pitch)

For roof slopes below 2:12, CSI requires two layers of fully adhered high-temperature peel-and-stick underlayment installed over Perm-A-Barrier primer. Flashings must be sandwiched into the membrane at all perimeters and penetrations. This underlayment assembly serves as the primary waterproofing system, while the metal panels function as an architectural rainscreen and UV barrier.

Underlayment Assembly Details

- System Type: High-Temperature Ice & Water Shield Assembly
- Membrane: Two layers of self-adhered underlayment applied over Perm-A-Barrier primer
- Integration: Flashings embedded between underlayment layers create a continuous waterproof envelope
- Limitation: Metal roof coverings must still comply with slope requirements. Underlayment redundancy cannot substitute for slope-compliant panel design.
- Reference: CSI has a 20-year track record of successful custom installations using GRACE ULTRA membranes and Perm-A-Barrier primer, warranted by Grace Construction Products in conjunction with CSI.

Protection Against UV Degeneration

To prevent UV degradation of waterproofing membranes in assemblies with perforated or open-joint systems—such as CSI Applied Heavy Plate (CSI-AHP) Soffit Panel Systems and CSI-AHP Wall Systems—CSI requires the installation of a Dörken DELTA®-FASSADE S UV Barrier Layer directly over the waterproofing membrane. This protective layer shields the primary barrier from prolonged UV exposure while maintaining drainage and ventilation continuity behind the panels.

Recognized Use in Rainscreen Conditions

CSI Architectural Metal LLC recognizes use of its roof panels at low slopes (1:12 and below) where they act as rainscreen and UV barrier only, provided the above double-layer underlayment assembly is followed exactly. In these installations, CSI panels are approved for architectural use with full aesthetic and structural integrity, while waterproofing remains the responsibility of the underlayment system.

Validated Performance

According to Intertek Test Report No. Q6264.02-450-18 R0, dated 08/14/2024, CSI's 1/8" Aluminum 1100 Roof Panel assembly (with Platinum HT-B Weather Barrier) successfully passed the TAS 100-23 Wind Driven Rain Resistance Test, meeting the requirements of Florida Building Code 8th Edition (2023), Section 1523.6.5.

Test Highlights

- Test Agency: Intertek Building & Construction – West Palm Beach, FL • Test Method: TAS 100-23 (Wind and Wind-Driven Rain Resistance) • Panel Type: 1/8" Aluminum 1100 Roof Panel, 2:12 slope • Underlayment Used: Platinum HT-B Weather Barrier (single layer, 3" overlap) • Observed Results: - 35 mph – No leakage - 70 mph – No leakage - 90 mph – No leakage - 110 mph – No leakage • Conclusion: The assembly met or exceeded FBC TAS 100 performance criteria.

Warranty Integration

CSI Architectural Metal LLC will issue a Weather-Tightness Warranty only in conjunction with the waterproofing manufacturer's warranty when the above assemblies, membranes, primers, and UV protection layers are installed according to tested and approved procedures.

Report Reference: Intertek Q6264.02-450-18 R0 | Date: 09/15/2014 | © CSI Architectural Metal LLC

Installation Requirements – CSI Heavy Gauge Panel Systems

CSI Heavy Gauge Panel Systems can be installed by experienced construction professionals who can read and interpret architectural plans and installation instructions. Although these systems are delivered prefabricated and installation-ready, proper handling and alignment are essential to ensure a successful and watertight installation.

A project-specific mock-up is strongly recommended to familiarize qualified installers with the panel system, detailing, and sequencing prior to full installation. This process helps identify field conditions, coordination needs, and best practices before work begins.

All waterproofing and sheet metal flashing beneath the panel system must be performed by qualified roofers or sheet metal workers with experience in architectural metal applications to guarantee system performance and weather resistance.

Tools, Safety, and Quality Assurance

Installation of CSI Heavy Gauge Panel Systems requires the use of standard construction and precision alignment tools, including laser levels, torque-controlled fasteners, and lifting equipment designed for handling plate materials. Careful planning of lifting points and bracing is necessary to prevent deformation of panels during installation.

Installers must follow all OSHA safety requirements and CSI's installation protocols, including the use of personal protective equipment (PPE) such as gloves, helmets, safety glasses, and fall protection when working at heights or handling large-format panels.

To ensure consistency, all work should be subject to continuous quality control, verifying attachment methods, joint spacing, and alignment against approved shop drawings. Any field modifications must be reviewed and approved by CSI or the project's design authority.

Maintenance and Service Life

CSI Heavy Gauge Panel Systems are engineered for long-term structural performance and minimal maintenance. Periodic inspections—recommended twice annually and after major weather events—should include checking attachment integrity, sealant joints, and adjacent flashings for wear or displacement.

Cleaning should be performed using mild, non-abrasive cleaners and soft cloths to preserve finish integrity. Avoid high-pressure washing or chemical solvents that could compromise protective coatings or anodized surfaces.

When properly maintained and installed per CSI guidelines, Heavy Gauge Panel Systems provide an expected service life exceeding 75 years, maintaining both aesthetic precision and structural resilience even under demanding environmental conditions.